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NOTICE OF ALLOWANCE AND FEE(S) DUE

28862

HUDAK, SHUNK & FARINE, CO., L.P.A. 2020 FRONT STREET **SUITE 307 CUYAHOGA FALLS, OH 44221**

EXAMINER ENGLISH, PETER C ART UNIT PAPER NUMBER

3616

DATE MAILED: 07/23/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/270,908	10/15/2002	Stephan Berges	FMW-AS (I 938)	7232

TITLE OF INVENTION: ROLLOVER PROTECTION SYSTEM FOR MOTOR VEHICLES

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	10/25/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or Fax	(703) 746-4000	giiia 22313-1430	
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2020 FRONT STR SUITE 307 CUYAHOGA FAL		L.P.A.		I hereby certify that the States Postal Service addressed to the Mai transmitted to the USF	rtificate of Mailing or Trans nis Fee(s) Transmittal is bein with sufficient postage for fir il Stop ISSUE FEE address PTO (703) 746-4000, on the c	smission g deposited with the United st class mail in an envelope above, or being facsimile date indicated below.
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						(Date)
APPLICATION NO.	FILING DATE]	FIRST NAMED INVE	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/270,908	10/15/2002		Stephan Berges	1	FMW-AS (1938)	7232
TITLE OF INVENTION: R						
APPLN. TYPE	SMALL ENTITY	ISSUE FE	EE P	UBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330		\$300	\$1630	10/25/2004
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ENGLISH,	PETER C	3616		280-756000		
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3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	HE PATENT (print	or type)		
PLEASE NOTE: Unless recordation as set forth in	an assignee is identified be 37 CFR 3.11. Completion	elow, no assignee of this form is NOT	data will appear on a substitute for filing	the patent. If an assign g an assignment.	nee is identified below, the d	ocument has been filed for
(A) NAME OF ASSIGNI	EE	(B)) RESIDENCE: (CIT	Y and STATE OR CO	UNTRY)	
Please check the appropriate	assignee category or catego	ries (will not be pri	nted on the patent);	individual 🔾 c	corporation or other private gr	oup entity
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5. Change in Entity Status	(from status indicated above IALL ENTITY status, See 3	•	□ h Applicant is no	t claiming SMALL EN	ΓΙΤΥ status. See, e.g., 37 CFF	2.1.27(a)(2)
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NOTE: The Issue Fee and Puinterest as shown by the reco	iblication Fee (if required) v	vill not be accepted	from anyone other t	re-apply any previously han the applicant; a regi	y paid issue fee to the applica istered attorney or agent; or th	ition identified above. ne assignee or other party in
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This collection of information an application. Confidentialists between the completed apthis form and/or suggestions	n is required by 37 CFR 1.3 ty is governed by 35 U.S.C. plication form to the USPT for reducing this burden, sh	11. The information 122 and 37 CFR 1 O. Time will vary ould be sent to the	n is required to obtain .14. This collection depending upon the Chief Information O	n or retain a benefit by the is estimated to take 12 individual case. Any conficer, U.S. Patent and	he public which is to file (and minutes to complete, includin mments on the amount of tir Trademark Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and ne you require to complete artment of Commerce. P.O.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/270,908	10/15/2002	Stephan Berges	FMW-AS (I 938)	7232
28862	7590 07/23/2004		EXAM	INER
HUDAK, SHU 2020 FRONT S'	NK & FARINE, CO., L. TREET	P.A.	ENGLISH,	PETER C
SUITE 307			ART UNIT	PAPER NUMBER
CUYAHOGA F	ALLS, OH 44221		3616	
			DATE MAILED: 07/23/2004	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 100 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 100 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	$\overline{\lambda}$
Notice of All 1994	10/270,908	BERGES ET AL.	\mathcal{O}
Notice of Allowability	Examiner	Art Unit	
	Peter C. English	3616	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 1. X This communication is responsive to the amendment filed	(OR REMAINS) CLOSED in) or other appropriate common IGHTS. This application is s 3 and MPEP 1308.	n this application. If not included	Iroo TUIC
2. ☑ The allowed claim(s) is/are <u>1-5</u> .	GIT 20 04110 2004.	·	
3. The drawings filed on 28 June 2004 are accepted by the E	xaminer.		
4. Acknowledgment is made of a claim for foreign priority uses a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	nder 35 U.S.C. § 119(a)-(d) of this communication to file	on Nod in this national stage application	
5. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXA es reason(s) why the oath or	AMINER'S AMENDMENT or NOT	ICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of th	son's Patent Drawing Review . s Amendment / Comment or .84(c)) should be written on the	in the Office action of se drawings in the front (not the bac R 1.121(d).	
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note DLOGICAL MATERIAL.	e the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview St Paper No./l 8), 7. ☑ Examiner's	ormal Patent Application (PTO-15 Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowar	
		Peter C. English Primary Examiner Art Unit: 3616	

Application/Control Number: 10/270,908

Art Unit: 3616

Page 2

EXAMINER'S AMENDMENT

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. In order to correct a minor, grammatical error, the application has been amended as follows:

In claim 1, at line 1, --a-- has been inserted before "motor".

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter C. English whose telephone number is 703-308-1377. The examiner can normally be reached on Monday through Thursday (7:00 AM - 5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul N. Dickson can be reached on 703-308-2089. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Peter C. English Primary Examine

Art Unit 3616

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19 July 2004

Issue	Classification

Application No.	Applicant(s)
10/270,908	BERGES ET AL.
Examiner	Art Unit
Peter C. English	3616

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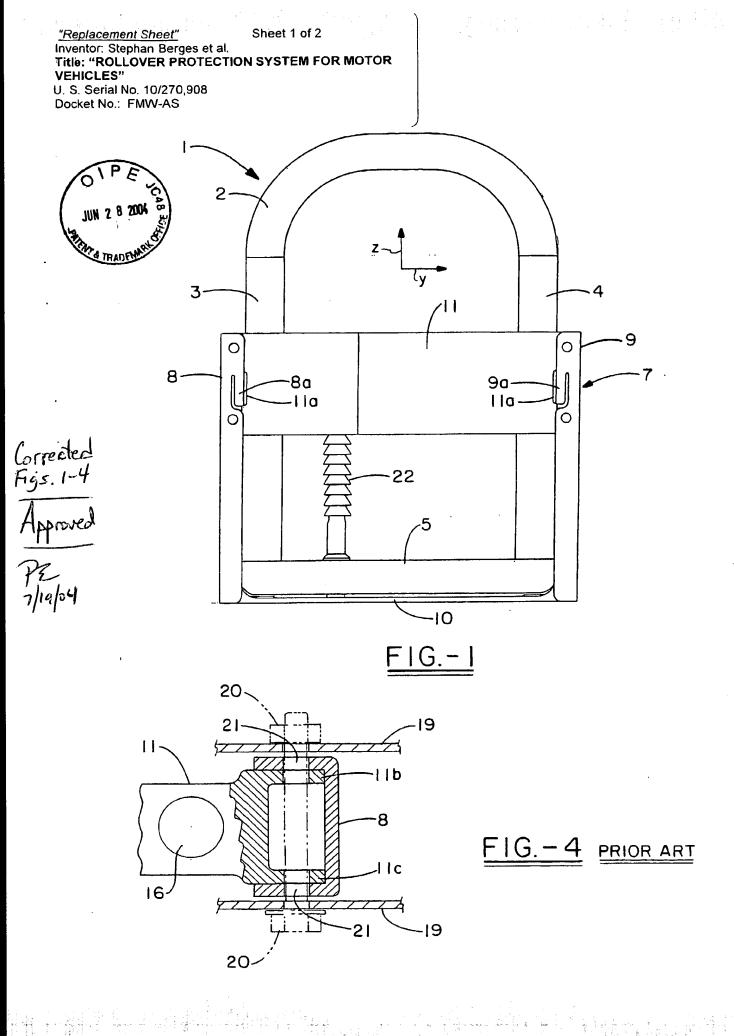
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Application No.	Applicant(s)	
10/270,908	BERGES ET AL.	
Examiner	Art Unit	
Peter C. English	3616	

SEARCHED								
Class	Subclass	Date	Examiner					
280	756 753	3/22/2004	PE					
296	190.03 102	3/22/2004	PE					
296	107.03	3/22/2004	PE					
Update	d	7/19/04	PE					

INTERFERENCE SEARCHED				
Class	Subclass	Date	Examiner	
280	756,753	7/19/04	PE	
296	190,03	7/19/04	PE	

SEARCH NOTES (INCLUDING SEARCH STRATEGY)			
	DATE	EXMR	
EAST (see printout)	3/22/2004	PE	
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Application/Control Number: 09/846,492

Art Unit: 2157

Silva teaches the invention substantially including fault-tolerant execution of mobile agents (see abstract).

As to claim 21, Silva teaches a method for initializing migrating managed state for a Java based application, comprising the operations of:

creating the migrated module on the second server (section 4.3.2, Silva discloses the protocol to migrate the agents between Agencies has been made atomic to failures, that is, it assures that a mobile agent is completely migrated to a remote server)

creating a state partitions for the migrated module based on the passed schema specification (see abstract, Silva discloses ... the framework includes a set of schema for failure detection ... a simple schema to deal with network partitions...); and

recovering a managed state for the migrated module from a state server (section 4.1, Silva discloses...when the system runs with a set of Managers it is necessary to include some fault-tolerance schemes...for failure recovery...)

Silva fails to teach sending a request to a second server to start a migrated module, the request being sent from a control module of a first module executing on a first server, wherein the control module passes a schema specification.

However, Jacobs teaches smart stub or enterprise java bean in a distributed processing system. Jacobs teaches sending a request to a second server to start a migrated module, the request being sent from a control module of a first module executing on a first server, wherein the control module passes a schema specification (column 1, lines 50-63, Jacobs discloses server 103 hosts business logic...the software may be programmed using a variety of programming models, such as Enterprise Java Bean...server 103 may retrieve data from database 101a...to a request from a client...Application server 103 then may transfer the request data...)

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Silva in view of Jacobs to make a first server sending a request to a second server to start a migrated module. One would have been motivated to do so allow for enhanced scalability and fault tolerance (see abstract).

Application/Control Number: 09/846,492

Art Unit: 2157

As to claim 23, Silva teaches a method as recited in claim 22.

Silva fails to teach the migration-capable non-replicated state is transferred using a replicated state manager specific protocol.

It would have been obvious to one of ordinary skill the art at the time of the invention to modify Siva by introducing one of numerous known methods of data transmission by means of a so-called file transfer protocol (FTP). One would have been motivated to do so that one distinct connection is established between the two communicating computers, which last only for the duration of the transfer.

As to claim 24, Silva teaches a method as recited in claim 21, wherein a replicated state manager creates the state partitions for the migrated module based on the passed schema specification (see abstract, Silva discloses ... the framework includes a set of schema for failure detection ... a simple schema to deal with network partitions...).

As to claim 25, Silva teaches a method as recited in claim 24.

Silva fails to teach the replicated state manager further creates SMUs for the migrated module.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Silva to create SMUs since state partitions can contain multiple SMUs. One would have been motivated to do so to permit the control module to control a disjoint subset of the network.

As to claim 26, Silva teaches a method as recited in claim 25, further comprising the operation of informing the control module to switch control to the migrated module (4.3.2, paragraph 3, Silva discloses when the remote Agency receives the agent it is saved in the stable storage...The remote Agency will try to execute the agent. If it succeeds it sends a commit message to the sender Agency).

Application/Control Number: 09/846,492 Page 10

Art Unit: 2157

8. Claim 22 rejected under 35 U.S.C. 103(a) as being unpatentable over Silva et al. IEEE "Fault-Tolerant Execution of Mobile Agents" published on 25-28 June 2000, in view of Jacobs et al. U.S. 6,581,088, and further in view of Kub et al. "OceanStore: An Architecture for Global-Scale Persistent Storage" published on 12-15 Nov. 2000.

Silva teaches the invention substantially including fault-tolerant execution of mobile agents (see abstract).

As to claim 22, Silva teaches a method as recited in claim 21.

Silva fails to teach to teach the operation of initializing the managed state for the migrated module using a replicated state manager executing the first server.

However, Kub teaches OceanStore: architecture for global-scale persistent storage. Kub teaches a migration-capable non-replicated state for the first entity bean is transferred to the second server (page 192, paragraph 5, Kub discloses... OceanStore benefits these applications by providing for seamless migration of data to where it is needed...).

It would have been obvious to one of ordinary skill in the art to modify Silva in view of Kub to allow the migrated module using a replicated state manager executing on the first server. One would have been motivated to do so to manage the archival storage only.

9. Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to El Hadji M Sall whose telephone number is 703-306-4153. The examiner can normally be reached on 8:00-4:30.

Art Unit: 2157

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 703 308-7562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

El Hadji Sall Patent Examiner Art Unit: 2157

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